BRUHATH BENGALURU MAHANAGARA PALIKE

Yelahanka Zone

				Estimated cost Rs	25.00 Lakhs

Name of Work:- Development and improvements to roads and drains in ward no03 Attur area surroundings in Yelahanka Upanagara sub division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	2	3	4	5	6	7	8	9	10
1	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. No. 141/ Item No. 19.1/ PWD SR 2015-16	Cum							
	Desilting of drains:-Cross roads		2	112.00	0.45	0.45	45.36		
			2	112.00	0.45	0.45	45.36		
	Berm cutting portion:-Cross roads		2	112.00	1.00	0.15	33.60		
			2	112.00	1.00	0.15	33.60		
	Main road		2	270.00	1.20	0.10	64.80		
	Road levelling:-Cross roads		1	112.00	6.30	0.20	141.12		
			1	112.00	6.75	0.20	151.20		
	Basic Rate	77.00					515.04	83.16	42830.73
	Area Weightage @ 8%	6.16							
	Total	83.16							
2	Removing B.S slab of drain and stacking(P.no25/s.no5.32)	Sqm							
	Cross roads		2	112.00	1.35		302.40		
			2	112.00	1.35		302.40		
							604.80		
	Deduct for 45% of missing stretches portion						272		
	Basic Rate	59.00					332.64	63.72	21195.82
	Area Weightage @ 8%	4.72							
	Total	63.72							
3	Refixing stone slabs of drains and pointing inCM(1:3) (p.no25/ s.no5.33)	Sqm							
		Quantity vide item no-02					332.64		

	Basic Rate	73.00					332.64	78.84	26225.34
	Area Weightage @ 8%	5.84							
	Total	78.84							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete do 7.5 cms thick	Sqm							
	Quantity vide item no-02 in missing qty portion						272.16		
	Main road Drain		2	270.00	1.65		891.00		
							1163.16		
	Deductions for R/Side and L/Side cross roads		10	7.00	1.65		115.50		
							115.50		
	Basic Rate	614.00					**1047.66**	**663.12**	**694724.30**
	Area Weightage @ 8%	49.12							
	Total	663.12							
5	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. pecification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2015-16	cum							
	Culverts		6	7.00	1.50	1.20	75.60		
	Drain		2	270.00	0.70	0.50	189.00		
							264.60		
	Deductions for R/Side and L/Side cross roads		10	7.00	0.70	0.50	24.50		
	Basic Rate	267.00					24.50		
	Area Weightage @ 8%	21.36					**240.10**	**288.36**	**69235.24**
	Total	288.36							

6	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed, concrete laid in layers not exeeding 15cms.thick, well compacted in foundation, including cost of all materials ,labour,HOM of machinery,curing complete as per pecifications.Specification no KBS4.1,4.2(Item no 4.3,Page no12,PWD SR 2015-16)	Cum							
	Culverts		6	7.00	1.50	0.15	9.45		
	Basic Rate	4695.00					**9.45**	**5070.60**	**47917.17**
	Area Weightage @ 8%	375.60							
	Total	5070.60							
7	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming etc as per specification &direction of the engineer incharge of work (pwd sr2015-16,p.no13,sno4.11)	Cum							
	Culverts:-Bottom concrete		6	7.00	1.20	0.25	12.60		
	Side walls		12	7.00	0.25	0.80	16.80		
	covering slabs		4	7.00	1.20	0.23	7.73		
			2	7.00	1.15	0.23	3.70		
							40.83		
	Approach concrete		12	7.00	0.90	0.15	11.34		
	Basic Rate	5739.00					**52.17**	**6198.12**	**323362.12**
	Area Weightage @ 8%	459.12							
	Total	6198.12							

8	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.Specification noKBS 4.6.3,TMT bars Fe55 0(pwd sr2015-16,p.no17,s.no4.46)	Tonne,s							
	0.10Tonne,s/cum						4.08		
	Basic rate	65287.00					**4.08**	**70509.96**	**287899.22**
	Add 8% AW	5222.96							
	Total	70509.96							
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, bittresses, buttresses plinth and string course including cost of all materials,labour complete asperspecificationS.Specification no.KBS 4.6.2(pwd sr2015-16,p.no15/4.31)	Sqm							
	Out side walls		12	7.00		1.05	88.20		
	In side walls		12	7.00		0.80	67.20		
	covering slabs		6	7.00	0.60		25.20		
	Alround Sides		6	16.40		0.23	22.63		
	Basic rate	284.00					**203.23**	**306.72**	**62335.32**
	Add 8% AW	22.72							
	Total	306.72							
10	KSRRB M300-53 : Construction of embankment with approved material Gravel/Murrum with all lifts and leads, trasnporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications including cost of gravell/murrum,watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305. (Page No. 147 & Item No. 19.60)	Cum							
	Cross road,s		1	112.00	6.30	0.45	317.52		

			1	112.00	6.75	0.45	340.20		
	Basic Rate	288.00					**657.72**	**311.04**	**204577.23**
	Area Weightage @ 8%	23.04							
	Total	311.04							
11	KSRRB M1400-14.1. Providing, laying, spreading and compacting stone aggregates of granite/trap/basalt of specific sizes to water bound macadam specifications including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding Materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per specifications.A.By manual means.Morth specification no.404,Type A 13.2 mm for grading II(P.156/I.20.14.1 PWD SR - 2015-16).	Cum							
	Cross roads		1	112.00	6.25	0.10	70.00		
			1	112.00	6.70	0.10	75.04		
	Basic Rate	1622.00					**145.04**	**1751.76**	**254075.27**
	Area Weightage @ 8%	129.76							
	Total	1751.76							
12	KSRRB M1400-14.1. Providing, laying, spreading and compacting stone aggregates of granite/trap/basalt of specific sizes to water bound macadam specifications including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding Materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per pecifications.A.By manual means.Morth specification no.404,Type A 11.2 mm for grading III(P.156/I.20.14.1 PWD SR - 2015-16).	Cum							
	Cross road,s		1	112.00	6.25	0.075	52.50		
			1	112.00	6.70	0.075	56.28		
	Basic Rate	1729.00					**108.78**	**1867.32**	**203127.07**
	Area Weightage @ 8%	138.32							
	Total	1867.32							

13	KSRRB M100-1 Loading and un loading of stone boulder/Stone aggregates/ sand/ kanker/ Moorum. KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no 130, PWD SR 2016-17)	Cum					755.4	72.44	55457.43
		68.00		Vide Item No.1+5			698.40	68.04	47519.00
	Basic Rate	68.00							
	Area Weightage @ 8%	5.04	5.44						
	Total	68.04							
		72.44						TOTAL RS	2286677.75
	KRIDL Charges 8%								2292962.30
									182934.00
	Quality Control charges 1%								18243643
									22867.00
14	Miscellaneous charges	L/S							22929.62
									1521.25
									671-10
								Total RS	2500000.00
	(Rupees twenty five lakhs only)								

Certificate:-

1 The work spot has been inspected and the work is found neccessary.
2 This estimate is prepared as per C.S.R. of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Ramaseeraj AE
Assistant Engineer
Ward no: 04

Assistant Executive Engineer
Yelahanka New town Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Administrative Approval
Accorded For "25.00" lakh Rs.
Head of A/C PO 190
CER NO 19 Dt: 01-08-16

TA CE (YNK)

Technical Sanction
Accorded For "25.00" lakh Rs.
Head of A/C PO 190
CER NO 27 Dt: 01-08-16

TA CE (YNK)

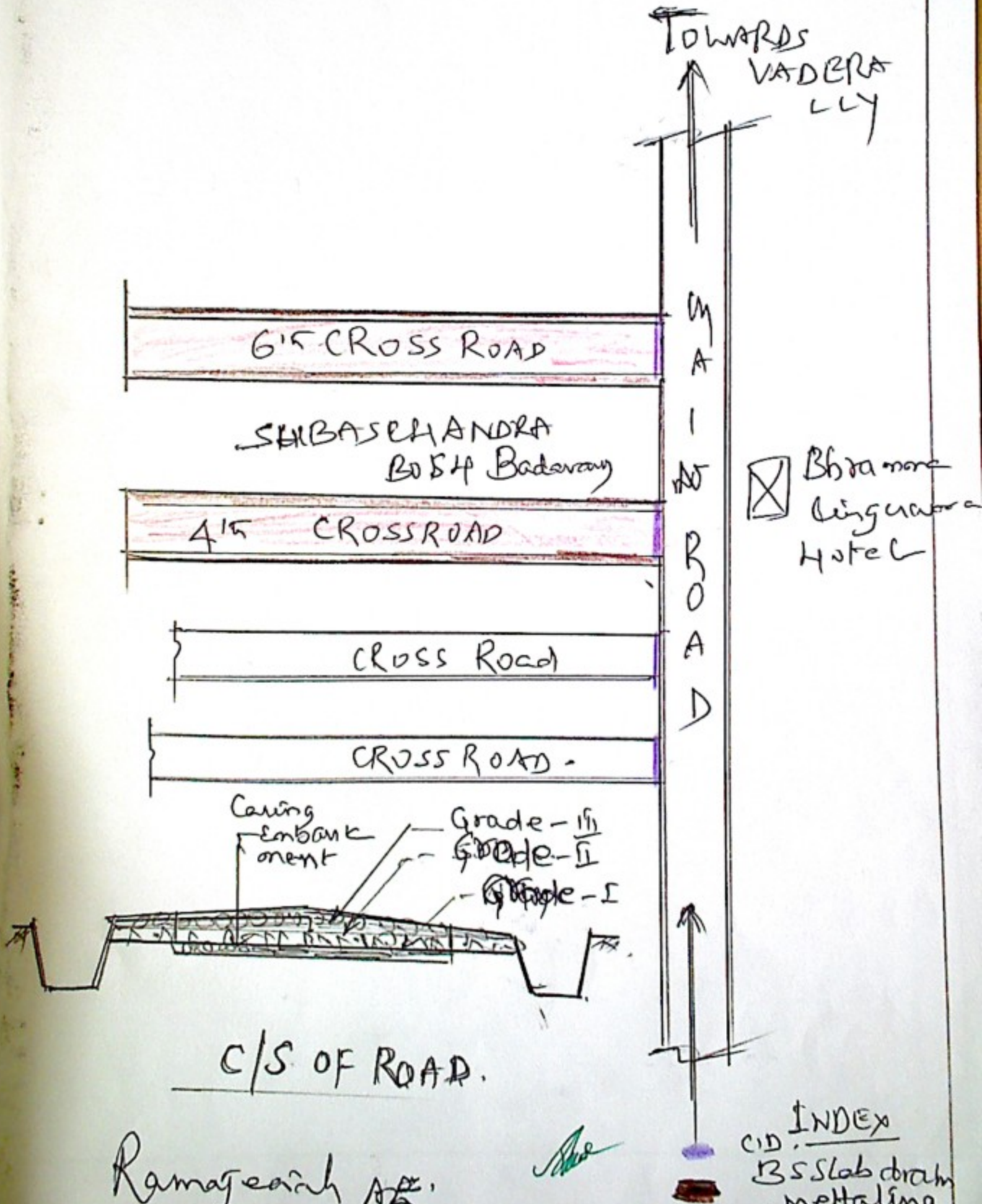
BRUHAT BANGALORE MAHANAGARA PALIKE		
YELAHANKA ZONE		
	Estimate Cost Rs.	25.00Lakhs
Name of Work:-Development and improvements to roads and drains in ward no 03 Attur area surroundings		

Rate Analysis

7	Providing casing embankment using semi-previous / previous soil from approved borrow areas in layers of 250 to 300 mm (befor copaction) inclduing cost of all aterails, machinary, labour all other operation such as collection of soil, spreading soil in layer of specified thickness, sorting out, nreaking clods, levelling, sectioning edges / sides, watering, compaction each layer to density control of not less than 95 percent o as stipulated using power roller etc.., complete with lead upto 1 km and all lisft. SR. WRD 2013-14								
	P-63, I-38. Basic rate	146.00							
	Lead charges 85.10 upto 5 km + unloading charges 11.80	85.10							
		11.80							
		242.90							

Ramareddy AE

DEVELOPMENT & IMPROVEMENTS TO ROADS & DRAINS IN WARD 03



C/S OF ROAD.

Ramagouda A.E.

CID. INDEX

BS Slab drain

metaling

Asphalt